

METHOD FOR DEMODULATING A DIGITAL SIGNAL
SUBJECTED TO MULTIPATH PROPAGATION IMPAIRMENT
AND AN ASSOCIATED RECEIVER

Abstract of the Disclosure

A method for demodulating a received digitally modulated signal subjected to multipath propagation impairment includes estimating the multipath
5 propagation impairment of the received digitally modulated signal using a channel estimator, and estimating at least one symbol of the received digitally modulated signal using a symbol estimator. The at least one estimated symbol is adjusted based
10 upon the estimated multipath propagation impairment to generate an estimate of the at least one symbol as impaired by the multipath propagation. At least one error signal is generated by comparing the estimate of the at least one symbol as impaired by the multipath
15 propagation to the received digitally modulated signal. The at least one error signal is used for estimating remaining symbols to be demodulated and for refining the estimated multipath propagation impairment.

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